

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Ugo Conti

Group Art Unit: 2862

Serial No.: To be Assigned

Examiner: Snow, Walter E.

Filed: Herewith

Atty. Dkt. No.: 23.0002D1

For: METHOD AND APPARATUS FOR
MEASURING CHARACTERISTICS OF
GEOLOGICAL FORMATIONS

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

EXPRESS MAIL MAILING LABEL

NUMBER EV399694520US

DATE OF DEPOSIT January 8, 2004

I hereby certify that this paper or fee is being deposited with the United States Postal Services "Express Mail Post Office to Addressee Service" on the date above.


Kerry Morris

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 be considered by the Examiner and made of record.

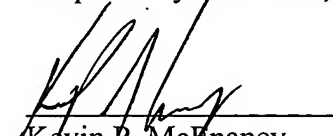
In accordance with 37 C.F.R. §§ 1.97(g),(h), this Information Disclosure Statement is not to be construed as a representation that a search has been made, and is not to be construed to be an admission that the information cited is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

This application is a divisional application of Serial No. 09/879,252, filed December 16, 2001, and is relied upon for an earlier filing date under 35 U.S.C. § 120. In accordance with Rule 37 C.F.R. § 1.98(d) copies of documents that were previously submitted to the Patent and Trademark Office in prior application Serial No. 09/879,252 are not enclosed.

Applicants respectfully request that the listed documents be made of record in the present case.

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Date Jan 8, 2004

Respectfully submitted,


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FORM PTO-1449 (Modified)

LIST OF INFORMATION PROVIDED
BY APPLICANT
(Use several sheets if necessary)

ATTY. DOCKET NO.
23.0002 CIP

SERIAL NO.
Unknown

APPLICANT:
Ugo Conti

FILING DATE:
Unknown

GROUP
Unknown

REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Patentee
	AA	5,646,533	07/08/97	Locatelli et al.
	AB			
	AC			
	AD			
	AE			
	AF			

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Translation	
					Yes	No
	AG					
	AH					

OTHER INFORMATION PROVIDED (AUTHOR, TITLE, DATE, PLACE OF PUBLICATION, PERTINENT PAGES, ETC.)

	AI	Nekut, Crosswell Electronmagnetic Tomography in Steel-Cased Wells, May-Jn 1995, Geophysics, Vol. 60, No. 3, pp. 912-920
	AJ	
	AK	
	AL	

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

- The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.
- This is not a representation that a search has been made.

FORM PTO-1449 (Modified)			Attorney Docket No.: 10917-000420US		Application No.: --Unknown--	
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)			Applicant: UGO CONTI			
			Filing Date: --Herewith--		Group:	
Reference Designation			U.S. PATENT DOCUMENTS			Page 1
Examiner Initial	Document No.	Date	Name	Class	Sub-class	Filing Date (If Appropriate)
_____ 1	4,748,415	05/31/88	Vail, III	324	339	
_____ 2	4,901,023	02/13/90	Vail, III	324	339	
_____ 3	4,903,207	02/20/90	Alger et al.	364	422	04/14/88
_____ 4	5,018,590	05/28/91	Weldon	175	105	02/08/90
_____ 5	5,038,107	08/06/91	Gianzero et al.	324	339	
_____ 6	5,065,100	11/12/91	Vail, III	324	339	
_____ 7	5,130,655	07/14/92	Conti	324	258	
_____ 8	5,157,392	10/20/92	Zimmer	340	853.9	10/01/90
_____ 9	5,260,661	11/09/93	Vail, III	324	339	
_____ 10	5,283,520	02/01/94	Martin et al.	324	220	
_____ 11	5,426,367	06/20/95	Martin et al.	324	339	
_____ 12	5,586,082	12/17/96	Anderson et al.	367	73	03/02/95
_____ 13	5,621,169	04/15/97	Harris et al.	73	152.18	09/10/96
_____ 14	5,646,533	07/08/97	Locatelli et al.	324	339	
_____ 15	5,654,639	08/05/97	Locatelli et al.	324	339	
FOREIGN PATENT DOCUMENTS						
	Document No.	Date	Country	Class	Sub-class	Translation (Yes/No)

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)						
_____ 16	Uchida, T. et al, "Effect of a steel casing on crosshole EM measurements," <u>SEG Annual Meeting</u> , Expanded Abstract, Houston, Texas, 1991					
_____ 17	Wilt, M. et al, "Crosshole electromagnetic tomography: A new technology for oil field characterization," <u>The Leading Edge</u> , 1995, pp. 173-177.					
_____ 18	Wilt, M.J. et al. "Crosswell electromagnetic tomography: System design consideration and field results," <u>Geophysics</u> , Vol 60, Bi, 3m 1995.					
_____ 19	Wilt, Michael et al., "Electromagnetic methods for development and production: State of the art," <u>The Leading Edge</u> , pp. 487-490 (April 1998)					
_____ 20	Wu, Xu et al, "Influence of steel casings on electromagnetic signals," <u>Geophysics</u> , Vol 59, No. 3, 1994.					
_____ 21	Augustin, A.M. et al, "A theoretical study of surface-to-borehole electromagnetic logging in cased holes," <u>Geophysics</u> , Vol 54, No. 1, 1989.					
EXAMINER			DATE CONSIDERED			

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FORM PTO-1449 (Modified) LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)			Attorney Docket No.: 10917-000410US		Application No.: 09/290,156	
			Applicant: UGO CONTI			
			Filing Date: April 12, 1999		Group:	
Reference Designation			U.S. PATENT DOCUMENTS			Page 1
Examiner Initial	Document No.	Date	Name	Class	Sub-class	Filing Date (If Appropriate)
1	4,748,415	05/31/88	Vail	324	339	04/29/86
2	4,901,023	02/13/90	Vail	324	339	05/31/88
3	5,038,107	08/06/91	Gianzero et al.	324	339	12/21/89
4	5,065,100	11/12/91	Vail	324	339	02/05/90
5	5,130,655	07/14/92	Conti	324	258	03/20/91
6	5,260,661	11/09/93	Vail	324	339	11/12/91
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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)						
11	Wilt, Michael et al., <u>Electromagnetic methods for development and production: State of the art</u> , The Leading Edge, pp. 487-490 (April 1998)					

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			Applicant: Ugo Conti			
			Filing Date: April 12, 1999		Group: 2856	
Reference Designation			U.S. PATENT DOCUMENTS			Page 1
Examiner Initial	Document No.	Date	Name	Class	Sub-class	Filing Date (If Appropriate)
___ AA	4,903,207	02/20/90	Alger et al.	364	422	04/14/88
___ AB	5,018,590	05/28/91	Weldon	175	105	02/08/90
___ AC	5,157,392	10/20/92	Zimmer	340	853.9	10/01/90
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___ AE	5,621,169	04/15/97	Harris et al.	73	152.18	09/10/96
___ AF						
FOREIGN PATENT DOCUMENTS						
	Document No.	Date	Country	Class	Sub-class	Translation (Yes/No)
___ AG						
___ AH						
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___ AI	Toshihiro Uchida et al, <u>Effect of a steel casing on crosshole EM measurements</u> , SEG Annual Meeting, Expanded Abstract, Houston, Texas, 1991					
___ AJ	Wilt M. Lee et al, <u>Crosshole electromagnetic tomography: A new technology for oil field characterization</u> , The Leading Edge, 1995, pp 173-177.					
___ AK	M.J. Wilt et al. <u>Crosswell electromagnetic tomography: System design consideration and field results</u> : Geophysics, Vol 60, Bi, 3m 1995.					
___ AL	Xu Wu et al, <u>Influence of steel casings on electromagnetic signals</u> : Geophysics, Vol 59, No. 3, 1994.					
___ AM	A.M. Augustin et al, <u>A theoretical study of surface-to-borehole electromagnetic logging in cased holes</u> : Geophysics, Vol 54, No. 1, 1989.					
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